

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application. Changes to the claims are shown with additions underlined and deletions in ~~strikethrough~~. Please cancel claims 9-21 without prejudice of the subject matter therein. Please add new claims 22-33. No new matter has been added.

Claim 1 (Original) A method, comprising:

dispensing a droplet;
modifying at least one of a direction, a velocity and an acceleration of the droplet using an optical field; and
disposing the droplet on a surface of a medical device after the modifying.

Claim 2 (Currently Amended) The method of claim 1, wherein:

the modifying ~~of the velocity of the droplet~~ includes modifying the velocity of the droplet to substantially zero temporarily at a position along a path.

Claim 3 (Original) The method of claim 1, wherein:

the droplet is included within a plurality of droplets;
the dispensing includes dispensing the plurality of droplets;
the modifying includes modifying the direction of at least one droplet from the plurality of droplets on a per-droplet basis using the optical field; and
the disposing includes disposing the plurality of droplets on the medical device after the modifying the direction of the plurality of droplets.

Claim 4 (Currently Amended) The method of claim 1, wherein:

the droplet is included within a plurality of droplets;
the dispensing includes dispensing the plurality of droplets, the dispensing of the plurality of droplets defines a first plume profile;

the modifying includes modifying the direction of the plurality of droplets using the optical field, the modifying defines a second plume profile different from the first plume profile; and

the disposing includes disposing the plurality of droplets having the second plume profile on the medical device after the modifying ~~the direction of the plurality of droplets.~~

Claim 5 (Currently Amended)

A The method of claim 4, comprising:

~~the optical field is a first optical field, the droplet is included within a first plurality of droplets;~~

~~the dispensing includes dispensing the a first plurality of droplets;~~

~~the modifying includes modifying the a direction of the first plurality of droplets using the a first optical field;~~

~~the disposing includes disposing the first plurality of droplets on the a medical device after modifying the direction of the first plurality of droplets;~~

~~the method further comprising:~~

dispensing a second plurality of droplets, a droplet from the second plurality of droplets having a size different from a size of ~~the a~~ droplet from the first plurality of droplets; and

modifying the direction of the second plurality of droplets using a second optical field.

Claim 6 (Currently Amended)

The method of claim 4, 5, further comprising

~~the optical field is a first optical field, the droplet is included within a first plurality of droplets;~~

~~the dispensing includes dispensing the first plurality of droplets;~~

~~the modifying includes modifying the direction of the first plurality of droplets using the first optical field;~~

~~the disposing includes disposing the first plurality of droplets on the medical device after modifying the direction of the first plurality of droplets;~~

~~the method further comprising:~~

~~dispensing a second plurality of droplets, a droplet from the second plurality of droplets having a size different from a size of the droplet from the first plurality of droplets;~~
~~modifying the direction of the second plurality of droplets using a second optical field;~~
and

disposing the second plurality of droplets on the medical device after modifying the direction of the second plurality of droplets such that the first plurality of droplets and the second plurality of droplets form interleaving zones on the medical device.

Claim 7 (Currently Amended)

A The method of claim 4, comprising:

dispensing a first droplet;
modifying at least one of a direction, a velocity and an acceleration of the first droplet using an optical field;
disposing the first droplet on a surface of a medical device after the modifying of the first droplet;
~~the droplet being a first droplet, the method further comprising:~~
dispensing a second droplet at a time period at least a portion of which overlaps with a time period in which the first droplet is dispensed;
modifying at least one of a direction, and a velocity and an acceleration of the second droplet using the optical field; and
disposing the second droplet on the medical device after the modifying ~~the at least one of the direction and the velocity~~ of the second droplet.

Claim 8 (Currently Amended)

The method of claim 4, 7, ~~wherein the droplet being a first droplet, the method further comprising:~~

~~dispensing a second droplet at a time period at least a portion of which overlaps with a time period in which the first droplet is dispensed;~~
~~modifying at least one of a direction and a velocity of the second droplet using the optical field; and~~
~~disposing the second droplet on the medical device after the modifying the at least one of the direction and the velocity of the second droplet,~~

the direction of the first droplet being modified and the direction of the second droplet being modified such that a position of the first droplet substantially corresponds to a position of the second droplet.

Claims 9-21 (Canceled)

Claim 22 (New) The method of claim 1, wherein the modifying is based on a measured characteristic of the droplet, the measured characteristic of the droplet is at least one of a size, a weight, a velocity and a chemical composition of the droplet.

Claim 23 (New) The method of claim 1, further comprising:

measuring at least one of a direction, a velocity and an acceleration of the droplet at a first position and at least one of a direction, a velocity and an acceleration of the droplet at a second position along a path defined by the dispensing of the droplet,

the modifying including modifying at an interaction location based on a difference in the at least one of the direction, the velocity and the acceleration of the droplet at the first position and the at least one of the direction, the velocity and the acceleration of the droplet at the second position, the first position being before the interaction location, the second position being after the interaction location.

Claim 24 (New) The method of claim 1, wherein a composition of the droplet on the surface of the medical device differs from the composition of the droplet after being dispensed.

Claim 25 (New) The method of claim 1, wherein a temperature of the droplet increases after being dispensed.

Claim 26 (New) The method of claim 1, wherein a temperature of the droplet decreases after being dispensed.

Claim 27 (New) A method, comprising:

dispensing a droplet;
modifying at least one of a direction, a velocity and an acceleration of the droplet using an optical field, the modifying being based on a characteristic indicating that the droplet is unacceptable for disposing on a surface of a medical device; and
disposing, after the modifying, the droplet on a waste surface different from and proximate to the surface of the medical device.

Claim 28 (New) The method of claim 27, wherein the characteristic includes at least one of a size, a weight, the velocity, the direction, the acceleration, and a chemical composition of the droplet.

Claim 29 (New) The method of claim 27, wherein the modifying includes modifying the velocity of the droplet to substantially zero temporarily at a position along a path.

Claim 30 (New) The method of claim 27, wherein:

the droplet is included within a plurality of droplets;
the dispensing includes dispensing the plurality of droplets;
the modifying includes modifying the direction of at least two droplets from the plurality of droplets on a per-droplet basis using the optical field; and
the disposing includes disposing the plurality of droplets on the waste surface after the modifying.

Claim 31 (New) The method of claim 27, wherein:

the droplet is included within a plurality of droplets;
the dispensing includes dispensing the plurality of droplets, the dispensing of the plurality of droplets defines a first plume profile;
the modifying includes modifying the direction of the plurality of droplets based on a characteristic of the plurality of droplets indicating that the plurality of droplets is unacceptable for disposing on the surface of the medical device, the modifying defines a

second plume profile different from the first plume profile, the characteristic of the plurality of droplets including at least one of a size, a weight, the velocity, the direction, the acceleration, and a chemical composition of the plurality of droplets; and

the disposing includes disposing the plurality of droplets having the second plume profile on the waste surface after the modifying.

Claim 32 (New) The method of claim 27, wherein:

the optical field is a first optical field, the droplet is included within a first plurality of droplets,

the dispensing includes dispensing the first plurality of droplets,

the modifying includes modifying the direction of the first plurality of droplets using the first optical field based on a characteristic of the first plurality of droplets indicating that the first plurality of droplet is unacceptable for disposing on the surface of the medical device, the characteristic of the first plurality of droplets including at least one of a size, a weight, a velocity, the direction, an acceleration, and a chemical composition of the first plurality of droplets, the disposing includes disposing the first plurality of droplets on the waste surface after the modifying the direction of the first plurality of droplets,

the method further comprising:

dispensing a second plurality of droplets, a droplet from the second plurality of droplets having a size different from the size of the droplet from the first plurality of droplets; and

modifying the direction of the second plurality of droplets using a second optical field.

Claim 33 (New) The method of claim 27, wherein the droplet is a first droplet, the method further comprising:

dispensing a second droplet at a time period at least a portion of which overlaps with a time period in which the first droplet is dispensed;

modifying at least one of a direction, a velocity, and an acceleration of the second droplet using the optical field based on a characteristic of the second droplet indicating that

the droplet is unacceptable for disposing on the surface of the medical device, the characteristic of the second droplet including at least one of a size, a weight, the velocity, the direction, the acceleration, and a chemical composition of the second droplet; and

disposing the second droplet on the waste surface after the modifying of the second droplet.